

Virology

Volume 156
1987

EDITORS

W. K. Joklik, EDITOR-IN-CHIEF A. Berk P. W. Choppin R. Haselkorn D. W. Kingsbury
F. Rapp J. G. Shaw M. D. Summers P. K. Vogt

ASSOCIATE EDITORS

C. Baglioni	S. Dales	D. E. Griffin	R. M. Krug	P. Palese	V. Stollar
A. K. Banerjee	J. M. Dalrymple	T. Grodzicker	M. Lai	P. Palukaitis	J. H. Strauss
C. Basilico	J. M. DeMarchi	M. Hayman	R. A. Lamb	E. Paoletti	B. Sugden
K. L. Beemon	W. G. Dougherty	K. V. Holmes	R. A. Lazzarini	H. R. Revel	M. M. Susskind
T. Ben-Porat	E. Ehrenfeld	M. S. Horwitz	A. D. Levinson	H. D. Robertson	R. I. Swanstrom
K. I. Berns	F. A. Eisnerling	M. M. Howe	L. Levintow	H. L. Robinson	R. H. Symons
J. M. Bishop	M. K. Estes	R. Hull	D. M. Livingston	G. F. Rohrmann	P. Tattersall
H. R. Bose, Jr.	B. N. Fields	E. Hunter	H. F. Lodish	B. Roizman	P. Tegtmeyer
M. A. Bratt	S. J. Flint	T. Hunter	R. B. Luftig	J. A. Rose	M. J. Tevethia
T. R. Broker	W. R. Folk	A. O. Jackson	L. K. Miller	L. B. Rothman-Denes	D. A. Thorley-Lawson
G. E. Bruening	R. I. B. Francki	J. E. Johnson	P. Model	C. E. Samuel	C. P. Van Beveren
E. Carstens	E. P. Geiduschek	J. M. Kaper	T. J. Morris	P. A. Schaffer	I. M. Verma
B. J. Carter	C. Georgopoulos	J. D. Keene	B. Moss	M. J. Schlesinger	L. E. Volkman
J. M. Coffin	W. Gerhard	E. Kieff	S. A. Moyer	P. B. Sehgal	E. K. Wagner
J. S. Colter	R. F. Gesteland	D. F. Klessig	F. A. Murphy	P. A. Sharp	E. Wimmer
J. A. Cooper	R. M. Goodman	E. Knight, Jr.	J. R. Nevins	G. E. Smith	O. Witte
D. L. Court	A. Granoff	D. M. Knipe	D. J. O'Callaghan	P. G. Spear	J. S. Youngner
R. J. Courtney					N. D. Zinder



ACADEMIC PRESS, INC.

Harcourt Brace Jovanovich, Publishers

San Diego Orlando New York Austin Boston
London Sydney Tokyo Toronto

Copyright © 1987 by Academic Press, Inc.

All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (27 Congress Street, Salem, Massachusetts 01970), for copying beyond that permitted by Sections 107 or 108 of the U. S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1987 articles are as shown on the article title pages; if no fee code appears on the title page, the copy fee is the same as for current articles.

0042-6822/87 \$3.00

MADE IN THE UNITED STATES OF AMERICA

Contents of Volume 156

Number 1, January 1987

Vincent C. Emery and David H. L. Bishop. Characterization of Punta Toro S mRNA Species and Identification of an Inverted Complementary Sequence in the Intergenic Region of Punta Toro Phlebovirus Ambisense S RNA That Is Involved in mRNA Transcription Termination	1
Ellen D. Jorgensen, Peter L. Collins, and Peter T. Lomedico. Cloning and Nucleotide Sequence of Newcastle Disease Virus Hemagglutinin–Neuraminidase mRNA: Identification of a Putative Sialic Acid Binding Site	12
Pranab K. Mukherjee and Robert W. Simpson. Transcriptionally Defective Nucleocapsids of Vesicular Stomatitis Virus from Cells Treated with Indomethacin	25
Loy E. Volkman, Phyllis A. Goldsmith, and Roberta T. Hess. Evidence for Microfilament Involvement in Budded <i>Autographa californica</i> Nuclear Polyhedrosis Virus Production	32
Domenic Casareale, Mario Stevenson, Koji Sakai, and David J. Volsky. A Human T-Cell Line Resistant to Cytopathic Effects of the Human Immunodeficiency Virus (HIV)	40
A. Michael Lindberg, Per O. K. Stålhandske, and Ulf Pettersson. Genome of Coxsackievirus B3	50
Narushi Iizuka, Shusuke Kuge, and Akio Nomoto. Complete Nucleotide Sequence of the Genome of Coxsackievirus B1	64
Franco M. Buonaguro, James K. McDougall, and Denise A. Galloway. Characterization of the Integration Site of the CMV <i>mtr</i> in a Tumor Cell Line	74
Ming-Chu Hsu, Andreas Scheid, and Purnell W. Choppin. Protease Activation Mutants of Sendai Virus: Sequence Analysis of the mRNA of the Fusion Protein (F) Gene and Direct Identification of the Cleavage-Activation Site	84
Wanjun Li, Kefung Chi, Gary E. Gallick, and James C. Chan. Monoclonal Antibody Study of the Subcellular Localization and DNA-Stimulating Activity of Murine Sarcoma Virus-Activated Transformation-Associated Proteins	91
Astrid Breuning, Karin Müller, and Christoph Scholtissek. Mutants of an Influenza A Reassortant Which Are Cold-Sensitive (cs) as well as Temperature-Sensitive (ts): On the Role of the Neuraminidase Activity for Influenza Virus Infection	101
Douglas D. Barker and Arnold J. Berk. Adenovirus Proteins from Both E1B Reading Frames Are Required for Transformation of Rodent Cells by Viral Infection and DNA Transfection	107
Vicki H. Bess and Edward A. Birge. Characterization of Phage 18, an Unstable Coliphage	122
Thomas Nowak and Gerd Wengler. Analysis of Disulfides Present in the Membrane Proteins of the West Nile Flavivirus	127
Carl J. Baldick, Jr., and Bernard Moss. Resistance of Vaccinia Virus to Rifampicin Conferred by a Single Nucleotide Substitution near the Predicted NH ₂ Terminus of a Gene Encoding an M, 62,000 Polypeptide	138
Anne E. Simon and Stephen H. Howell. Synthesis <i>in Vitro</i> of Infectious RNA Copies of the Virulent Satellite of Turnip Crinkle Virus	146
David T. Rowe, Paul J. Farrell, and George Miller. Novel Nuclear Antigens Recognized by Human Seria in Lymphocytes Latently Infected by Epstein–Barr Virus	153
Short Communications	
Yoshiaki Onuki, Atsushi Ohshima, Yutaka Kawarabayasi, and Tatsuo Takeya. Comparison of the Structural Organizations in the 3'-Terminal Regions of Five Avian Retrovirus Strains: RAV 7, RAV 50, B77, PR-B, and SR-B	163
Mark D. Krevolin and Marshall S. Horwitz. Functional Interactions of the Domains of the Adenovirus DNA Binding Protein	167

Hans R. Gelderblom, Elda H. S. Hausmann, Muhsin Öznel, Georg Pauli, and Meinrad A. Koch. Fine Structure of Human Immunodeficiency Virus (HIV) and Immunolocalization of Structural Proteins	171
Anne Gegonne, Dominique Leprince, Philippe Pognonec, Dominique Dernis, Marie Berthe Raes, Dominique Stehelin, and Jacques Ghysdael. The 5' Extremity of the <i>v-ets</i> Oncogene of Avian Leukemia Virus E26 Encodes Amino Acid Sequences Not Derived from the Major <i>c-ets</i> -Encoded Cellular Proteins	177
W. G. Laver, R. G. Webster, and P. M. Colman. Crystals of Antibodies Complexed with Influenza Virus Neuraminidase Show Isosteric Binding of Antibody to Wild-Type and Variant Antigens	181
Donald R. Carrigan and Cathryn M. Kabacoff. Nonproductive, Cell-Associated Virus Exists before the Appearance of Antiviral Antibodies in Experimental Measles Encephalitis	185
Daniel Luk, Paul S. Masters, Ángeles Sánchez, and Amiya K. Banerjee. Complete Nucleotide Sequence of the Matrix Protein mRNA and Three Intergenic Junctions of Human Parainfluenza Virus Type 3	189
Erratum	
Volume 153, Number 2, September 1986: Daniel Luk, Ángeles Sánchez, and Amiya K. Banerjee, "Messenger RNA Encoding the Phosphoprotein (P) Gene of Human Parainfluenza Virus 3 Is Bicistronic," pp. 318-325	193
Author Index for Volume 156, Number 1	195

Number 2, February 1987

Barbara R. Baumstark and June R. Scott. The <i>c4</i> Gene of Phage P1	197
Gerard P. Norton, Toshinori Tanaka, Kiyotake Tobita, Susumu Nakada, Deborah A. Buonagurio, Deborah Greenspan, Mark Krystal, and Peter Palese. Infectious Influenza A and B Virus Variants with Long Carboxyl Terminal Deletions in the NS1 Polypeptides	204
Alexandra Valsamakis, Yves Riviere, and Michael B. A. Oldstone. Perturbation of Differentiated Functions <i>In Vivo</i> during Persistent Viral Infection. III. Decreased Growth Hormone mRNA	214
L. W. McGinnes and T. G. Morrison. The Nucleotide Sequence of the Gene Encoding the Newcastle Disease Virus Membrane Protein and Comparisons of Membrane Protein Sequences	221
Marcus Schuermann and Rob Michalides. A Rare Common Integration Site of Proviruses of the Mouse Mammary Tumor Virus in P-Type Mammary Tumors of Mouse Strain GR	229
Yoshihiro Okada, Gotaro Toda, Hiroshi Oka, Akio Nomoto, and Hiroshi Yoshikura. Poliovirus Infection of Established Human Blood Cell Lines: Relationship between the Differentiation Stage and Susceptibility or Cell Killing	238
H. G. Kräusslich and K. von der Helm. Characterization of a Virus-Specific Proteolytic Activity Processing the <i>gag</i> Precursor of the Simian Sarcoma-Associated Virus	246
Xiping Wei, Maryna C. Els, Robert G. Webster, and Gillian M. Air. Effects of Site-Specific Mutation on Structure and Activity of Influenza Virus B/Lee/40 Neuraminidase	253
Lilia Cantero-Aguilar, Alejandra Sanchez-Trujillo, and Carlos Fernandez-Tomas. Poliovirion-Derived Capsid Proteins in Subviral Ribonucleoprotein Complexes	259
Mary K. Schmitt and Kristine Mann. Glycosylation of Simian Virus 40 T Antigen and Localization of Glycosylated T Antigen in the Nuclear Matrix	268
Marshall V. Williams and Deborah S. Parris. Characterization of a Herpes Simplex Virus Type 2 Deoxyuridine Triphosphate Nucleotidohydrolase and Mapping of a Gene Conferring Type Specificity for the Enzyme	282
Dennis W. Trent, Richard M. Kinney, Barbara J. B. Johnson, A. Vance Vorndam, Joyce A. Grant, Vincent Deubel, Charles M. Rice, and Chang Hahn. Partial Nucleotide Sequence of St. Louis Encephalitis Virus RNA: Structural Proteins, NS1, ns2a, and ns2b	293

Tsong-Teh Kuo, Yu-Huei Lin, Chung-Ming Huang, Shau-Feng Chang, Hwa Dai, and Teng-Yung Feng. The Lysogenic Cycle of the Filamentous Phage Cf1t from <i>Xanthomonas campestris</i> pv. <i>citri</i>	305
Hwa Dai, Shwu-Huey Tsay, Tsong-Teh Kuo, Yu-Huei Lin, and Wen-Chen Wu. Neolysogenization of <i>Xanthomonas campestris</i> pv. <i>citri</i> Infected with Filamentous Phage Cf16	313
Chien-Kou Shieh, Lisa H. Soe, Shinji Makino, Ming-Fu Chang, Stephen A. Stohlman, and Michael M. C. Lai. The 5'-End Sequence of the Murine Coronavirus Genome: Implications for Multiple Fusion Sites in Leader-Primed Transcription	321
James G. Keck, Stephen A. Stohlman, Lisa H. Soe, Shinji Makino, and Michael M. C. Lai. Multiple Recombination Sites at the 5'-End of Murine Coronavirus RNA	331
Ralph S. Baric, Chien-Kou Shieh, Stephen A. Stohlman, and Michael M. C. Lai. Analysis of Intracellular Small RNAs of Mouse Hepatitis Virus: Evidence for Discontinuous Transcription	342
David B. Boyle, Barbara E. H. Coupar, Adrian J. Gibbs, Linda J. Seigman, and Gerald W. Both. Fowlpox Virus Thymidine Kinase: Nucleotide Sequence and Relationships to Other Thymidine Kinases	355
Stephen A. Rice, Daniel F. Klessig, and Jim Williams. Multiple Effects of the 72-kDa, Adenovirus-Specified DNA Binding Protein on the Efficiency of Cellular Transformation	366
Michael C. Yeung, M. John Gill, Suleiman S. Alibhai, Mahmoud S. Shahrabadi, and Patrick W. K. Lee. Purification and Characterization of the Reovirus Cell Attachment Protein σ 1	377
Jacqueline M. Katz, Clayton W. Naeve, and Robert G. Webster. Host Cell-Mediated Variation in H3N2 Influenza Viruses	386
David W. Kingsbury, Ian M. Jones, and K. G. Murti. Assembly of Influenza Ribonucleoprotein <i>in Vitro</i> Using Recombinant Nucleoprotein	396
Barbara R. Baumstark, Sonja R. Stovall, and Samy Ashkar. Interaction of the P1c1 Repressor with P1 DNA: Localization of Repressor Binding Sites near the c1 Gene	404
Short Communications	
Masaho Ishino, Yukiharu Sawada, Tazuko Yaegashi, Mamoru Demura, and Kei Fujinaga. Nucleotide Sequence of the Adenovirus Type 40 Inverted Terminal Repeat: Close Relation to That of Adenovirus Type 5	414
Rolf Ingemarson and Hilkka Lankinen. The Herpes Simplex Virus Type 1 Ribonucleotide Reductase Is a Tight Complex of the Type $\alpha_2\beta_2$ Composed of 40K and 140K Proteins, of Which the Latter Shows Multiple Forms Due to Proteolysis	417
Kimiyasu Shiraki and Richard W. Hyman. The Immediate Early Proteins of Varicella-Zoster Virus	423
Joseph M. Weber and Alain Houde. Spontaneous Reversion of a C/T Transition Mutation in the Adenovirus Endoproteinase Gene	427
Addendum	
Volume 150, Number 2, April 30, 1986: L. Dixon, T. Nyffenegger, G. Delley, J. Martinez-Izquierdo, and T. Hohn, "Evidence for Replicative Recombination in Cauliflower Mosaic Virus," pp. 463-468	429
Erratum	
Volume 155, Number 1, November 1986: Ralf G. Dietzgen and Milton Zaitlin, "Tobacco Mosaic Virus Coat Protein and the Large Subunit of the Host Protein Ribulose-1,5-Bisphosphate Carboxylase Share a Common Antigenic Determinant," pp. 262-266	430
Author Index for Volume 156	431
Subject Index for Volume 156	432

